TXC

"Bringing Innovation to the Fleet"
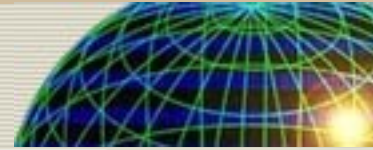
eBusiness
Department of the Navy
Operations Office
Sponsored
Pilot Project

Dr. David J. Roberts
SPAWARSYSCEN, San Diego, CA

SPAWAR

History and Charter of TXC...

- **TXC started as the "best practices" of the SPAWAR Chief Technology Office, +26 months ago**
- **TXC replaces a manual process of scouting and transitioning technology to the fleet**
- **TXC proposed to the DON eBusiness Office**
  - Submitted in May 2003
  - Funded in August 2003
  - Six month pilot from September 2003 to February 2004
- **TXC charter is presently only DON... Future DoD and eGov applications are possible**

TXC's Business Value is...

- **The early identification of technology solutions to match emerging fleet requirements**

- **A method for determining candidate architectures for new and changing requirements**

- **A way to manage the Department of the Navy's technology portfolio...**
  - S&T investments
  - R&D efforts
  - Fleet experiments, etc.

- **Wider selection of applicable technology solutions based on a comprehensive coverage of technologies**
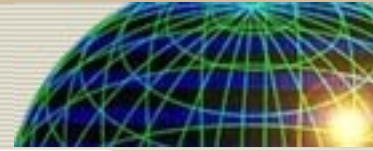
TXC = Innovation$^{(n)}$
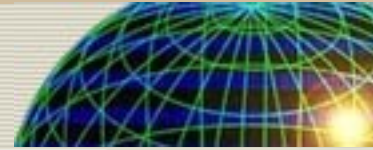
TXC's Purpose is to Provide...

- **A standardized method for the classification of technologies and products of interest**
- **Capability and requirements based technology assessments**
- **Timely technology solutions through direct vendor input and information maintenance**
- **Competitive solutions through a fair and open assessment process...**
  - Instant Trade Studies... by maturity, capability, mission area, etc.
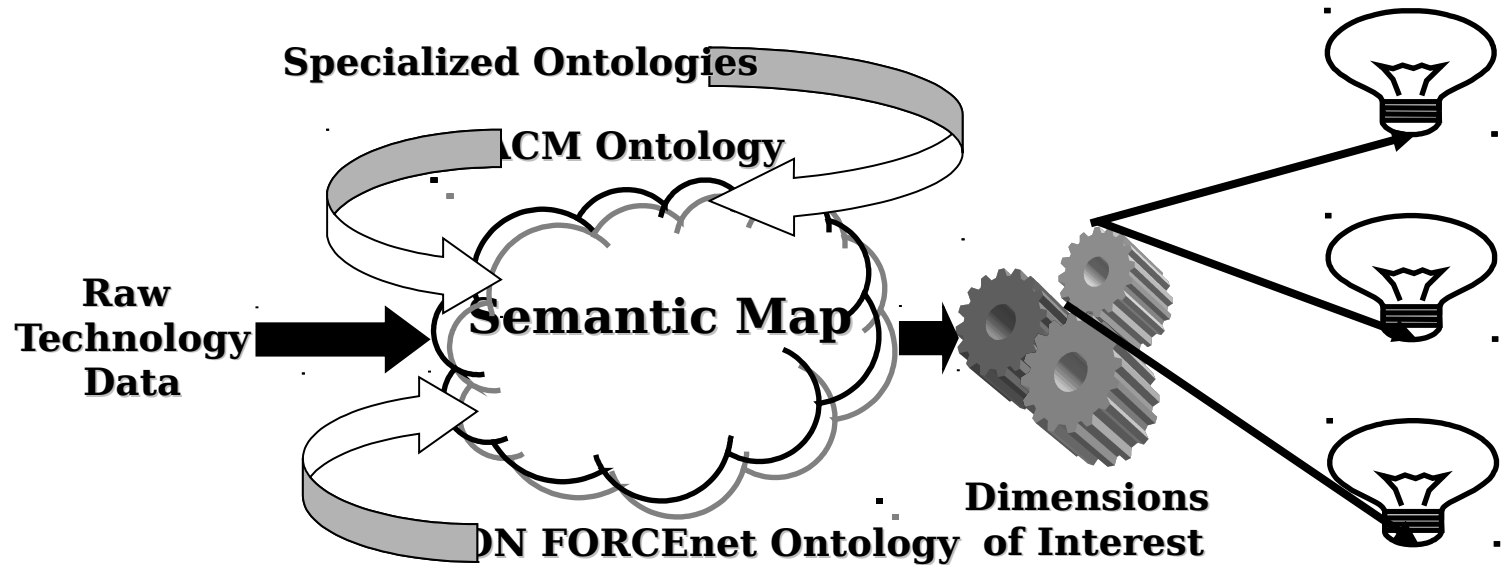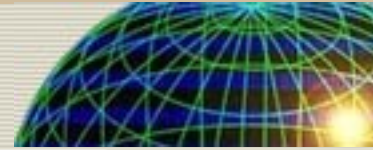 - Gap and Opportunity Analysis
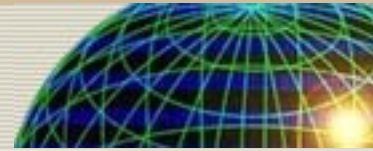
TXC... What Does It Do?

- **Provides a single process for DON to assess technologies of interest**
- **Technology attributes are mapped to client centric views**
  - Who you are, and your interests, determine what you see
  - Universal "translator" of concepts and ideas
- **Links logical information (requirements and capabilities) to physical technologies**
- **Aligns fleet requirements to technology solutions**

TXC... How does it work?

Specialized Ontologies

ACM Ontology

Raw Technology Data

Semantic Map

Dimensions of Interest

DN FORCEnet Ontology

Related Information + Context = Solutions

TXC Results...

- **Estimated Return on Investment (ROI) of 10:1 for Phase One.**
  - SPAWAR Chief Technology Office, Oct 2002 study found the cost of the manual collection/assessment method was $630 per record
  - TXC Phase One costs (12,000 records)... $60 per record
  - Out year costs should drop to less than $6 per record with 90% of costs carried by the customer-base
- **Provides web data services to several Navy and DoD information portals... e.g., DON IM/IT Virtual Community (27,000 potential customers)**
- **Uses existing Navy data feeds (i.e., Certified Product List) with "pointers" to more detailed information sources**
- **500,000 Central Customer Registration (CCR) and 1.1 million Fedlog businesses partners are pre-registered in TXC**

Where Does It Fit?

- **TXC is a module within the Navy Data Environment (NDE) / SPAWAR PEO Integration Data Environment Repository (SPIDER)... core component of the DON eBusiness Office**

- **Authoritative Source... S&T resource for all of DON**

- **TXC offers User and Data Web Services to any authorized portal or application within DON**

- **TXC is on the "edge" of analytical methods*... sophisticated classification and search techniques**

  * Note: The prototype of TXC was able to analyze thirty-four
  dimensions of interest in near real-time. There is no theoretical
  limit to present version of TXC.
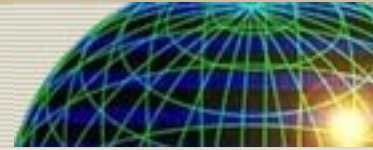
TXC… is an eBusiness Process

1. Technology Owners…
- register
- are approved for input
- describe their technology in a "standardized" format

2. TXC Automated Tools…
- filter raw data
- categorize by capability and physical attributes
- add "DON" information
- map information to Navy architectures,
  (Mission Capability Packages)

Internet

1.

**Approved
DON Firewall**

2.

3.
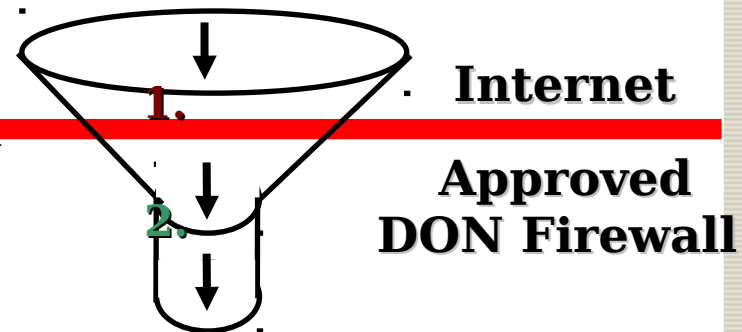
3. Technology Users…
- search using powerful 21st century tools
- permissions-based access to information
- "instant" trade studies, or capabilities assessments
- web services available (for portals or applications)

The Actual System...

Technology eXchange Clearinghouse

TXC Home Page - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back | Search | Favorites | Media

Address http://198.253.7.119:8990/TXC_APPS-ViewController-context-root/login.do   Go

Links Google   Microsoft Windows Update

Technology
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Clearinghouse

Home | Products | Personal Profile | Reports

Search CPL
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Novel Architecture

SPAWAR
Space and Naval
Warfare Systems Command

Welcome today is January 05 2004

- Hello Thomas George
- Your last logon to the system was on Mon Jan 05 10:04:36 GMT-08:00 2004
- There have been 0 failed attempts to logon since your last login.
- You last changed your password on Mon Jan 05 10:04:36 GMT-08:00 2004 To Change your password Click Here
- Edit my contact information Click Here

Current Reports

- None

Product Watch Portlet   Customize

Name	Date Edited	Who Edited
Make More Money Tool	2004-01-05	Unknown Assailant
Make More Pasta Tool	2004-01-05	Unknown Eater
Lots a' luck Tool	2004-01-05	St. Patrick

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Done   Internet

Technology eXchange Clearinghouse

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SPAWAR
Space and Naval
Warfare Systems Command

|	Entry Id	Name	Status	Author	Description	Created	Edited
NEW	5	Bug Wonder System	Active	System Admin	Never test another line of code again with the Bug Wonder System. It completly tests code that is written in Java, C#, C++, Visual Basic or ALGOL 67. When testing is completed bugs are logged and the Intelligent Semantic Universal Parsing Correction System (ISUPCS pronounced I-SUPE-IX) reads the error reports and repairs error that range from syntax to semantic. For the month of January if you order the sytem you will receive a lovely coffee mug set of bug cup and ISUPICS warming cover, so act now!	2003-12-30	Edit
NEW	1	Internet Packet Cleaner	Active	System Admin	This appliance produces at least 60% more bandwith on your network or your money back, it may also cause you to lose 15 pounds in only 10 days. If that weren't enough the first 30 buyers will recieve the George Foreman Cubemate grill. Make great tasting burgers, steaks and chicken right there at work with only 1/3 of the fat.	2003-12-29	Edit
NEW	3	Smart Firewall	Active	System Admin	This firewall lets bad guys in but not out. They can come in but the packets sent to them are red herrings to give us time to track them down. This firewall also does smart routing and replaces the need for any network head end router. For a limited time offer you get this book, Internet Security Using Window 3.11 by Microsoft if you act now.	2003-12-29	Edit
NEW	2	Uber-Java	Active	System Admin	This language compiles and writes all your code from simple pictures. The language guarantees to be 175% faster to write, deploy and execute than Java.	2003-12-29	Edit
NEW	4	Uber-Java Server	Active	System Admin	This server does it all, e-mail, application services, file sharing and it does it all because of Uber-Java Operating System. All you need to do is add pictures of what the server should do and blammo it does it. For a limited time you get a case of 360K floppys for use in backing you system up, these floppies come in a rainbow of colors and are guaranteed to please.	2003-12-29	Edit

Next

Home | Product Home | Personal Profile | Reports
Search CPL | Search Product | Novel Architecture

Done   Internet

(More Slides... Search Functions)
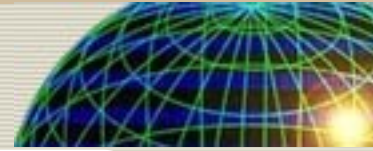
The Current Team...

- DON eBusiness Operations Office
- Space and Naval Warfare Systems Command (SPAWAR), San Diego (Echelon 2)
- SPAWAR Systems Center, San Diego (Echelon 3)
- Department of the Navy Chief Information Office
- Central Customer Registry (CCR)

Point of Contact...

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URL of TXC registration page...

https://TXC.spawar.navy.mil